

Product Features

Capacity Range

96.5 ~ 209 kWh scalable configuration

Cloud Monitoring

WiFi & Bluetooth enabled; supports remote monitoring via cloud platform

Triple Safety Protection

Positive Relay + Negative Relay + Breaker with redundant control design

LiFePO4 Chemistry

Enhanced thermal stability, long cycle life, superior safety performance

Modular Installation

19-inch embedded module design for quick installation and easy maintenance

Intelligent BMS

Auto management of charge/discharge, cell balancing, multi-level protection

Battery System Specifications (Part 1 of 2)

Parameter	EG-HV96C	EG-HV112C	EG-HV128C	EG-HV144C
Battery Module Qty in Series	6	7	8	9
System Nominal Voltage (V)	307.2	358.4	409.6	460.8
System Operating Min. Voltage (V)	268.8	313.6	358.4	403.2
System Operating Max. Voltage (V)	345.6	403.2	467.2	518.4
System Energy (kWh)	96.5	112.5	128.6	144.7
System Usable Energy (kWh)	91.6	106.9	122.2	137.5
Recommend Charge/Discharge Current (A)	150/150	150/150	150/150	150/150
Max Charge/Discharge Current (A)	200/200	200/200	200/200	200/200
Peak Discharge (3S, 25°C) (A)	220/220	220/220	220/220	220/220
Dimensions W×D×H (mm)	840×590×2095	776×552×1282	776×552×1588	776×552×1894
Weight Approx. (kg)	867.5	989.5	1111.5	1233.5
Footprint (m×m)	0.84×0.59	0.78×0.55 / 0.84×1.19	0.78×0.55 / 0.84×1.19	0.78×0.55 / 0.84×1.19

Battery System Specifications (Part 2 of 2)

Parameter	EG-HV160C	EG-HV176C	EG-HV192C	EG-HV209C
Battery Module Qty in Series	10	11	12	13
System Nominal Voltage (V)	512.0	563.2	614.4	665.6
System Operating Min. Voltage (V)	448.0	492.8	537.6	582.4
System Operating Max. Voltage (V)	576.0	633.6	691.2	748.8
System Energy (kWh)	160.8	176.8	192.9	209.0
System Usable Energy (kWh)	152.7	168.0	183.3	198.5
Recommend Charge/Discharge Current (A)	150/150	150/150	150/150	150/150
Max Charge/Discharge Current (A)	200/200	200/200	200/200	200/200
Peak Discharge (3S, 25°C) (A)	220/220	220/220	220/220	220/220
Dimensions W×D×H (mm)	840×1190×2095	776×552×1282	776×552×1588	776×552×2200
Weight Approx. (kg)	1355.5	1477.5	1599.5	1721.5
Footprint (m×m)	0.78×0.55 / 0.84×1.19	0.78×0.55 / 0.84×1.19	0.78×0.55 / 0.84×1.19	0.78×0.55 / 0.84×1.19

Common Specifications (All Models)

Installation Location	Rack Mounting (19-inch standard)
Recommend Depth of Discharge	≤95%
Cycle Life	6000 cycles @ 25°C, 0.5C/0.5C, EOL 70%
Display Type	LED + Touch LCD
Triple Protection	Positive Relay + Negative Relay + Breaker
Number of Main Circuit Relays	3
Heat Dissipation	Natural Cooling / Fan Cooling

Certification	UN38.3 / CE / CE-EMC
Working Temperature (°C)	Charge: 0~55°C / Discharge: -20~55°C
Storage Temperature (°C)	0~35°C
Communication Port	RS485 / CAN / WiFi
Humidity (RH)	5% ~ 80%
Altitude (m)	≤3000
IP Rating of Enclosure	IP22
Noise (dB)	<30 (Natural) / 50 (Fan)

Note: All voltage values are DC. System energy calculated at nominal voltage × rated capacity. Usable energy assumes 95% depth of discharge.

Battery Pack Module: SR-HOF16B

Battery Type	LiFePO4
Battery Energy (kWh)	16.08
Rated Voltage (V)	51.2
Rated Capacity (Ah)	314
Recommend Charge/Discharge Current (A)	150 / 150
Max Charge/Discharge Current (A)	200 / 200
Peak Discharge (3S, 25°C) (A)	220 / 220
Installation Location	Rack Mounting
Recommend Depth of Discharge	≤95%
Cycle Life	6000 cycles @ 25°C, 0.5C/0.5C, EOL 70%
Heat Dissipation	Fan Cooling
Working Temperature (°C)	Charge: 0~55°C / Discharge: -20~55°C
Storage Temperature (°C)	0~35°C

IP Rating of Enclosure	IP20
Dimensions W×D×H (mm)	750 × 504 × 253
Weight Approx. (kg)	120

PDU Module: SR-PDU200C

Rated Voltage (V)	850
Rated Current (A)	250
Operating Voltage Range (V)	100 ~ 850
CAN Communication Ports	2
Relay Control Outputs	3
LCD Screen	4.3 inch
Breaker Rating (A)	300
Relay Rating (A)	250
Fuse Rating (A)	315
Precharge Relay (A)	50
Precharge Resistance (W/Ω)	200 / 100
External DC Input Port (V)	24
Dimensions W×D×H (mm)	608 × 504 × 253
Weight Approx. (kg)	17.5

Rack Specifications: SR-Rack-7B

Single Cluster Rack Size W×D×H (mm)	840 × 590 × 2095
Single Cluster Rack Weight (kg)	118
Max Battery Units per Single Cluster	6
Max Battery Units per Two Clusters	13

Compatible Footprint Options	0.78×0.55 m (compact) / 0.84×1.19 m (dual cluster)
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Configuration Notes:

- Modules support hot-swappable maintenance and parallel expansion.
- BMS provides real-time monitoring of voltage, current, temperature, SOC/SOH.
- System supports remote firmware updates and alarm notifications via cloud platform.
- Footprint varies based on single/dual cluster configuration; consult layout guide for installation.

Safety & Compliance Summary

Electrical Protection

Over-Current Protection	Multi-stage: BMS + Breaker + Fuse
Over-Voltage / Under-Voltage	Automatic cutoff with hysteresis recovery
Short Circuit Protection	<10ms response time via relay + breaker
Reverse Polarity Protection	Hardware-level diode + software detection
Isolation Monitoring	Real-time insulation resistance detection

Thermal Management

Temperature Monitoring Points	≥3 per module (cell, PCB, ambient)
Cooling Strategy	Natural convection below 40°C; Fan-assisted above
Thermal Runaway Prevention	LiFePO4 chemistry + cell-level fusing + venting design
Operating Temperature Range	Charge: 0~55°C / Discharge: -20~55°C

Environmental & Mechanical

Vibration Resistance	IEC 60068-2-6: 5~500 Hz, 1.5 mm / 10 gn
Shock Resistance	IEC 60068-2-27: 30 gn, 11 ms, 3 axes
Ingress Protection	System: IP22 / Module: IP20
Altitude Derating	Full performance ≤2000m; linear derating to 3000m

Certifications & Standards

Safety Certifications

UN38.3, CE, CE-EMC, IEC 62619, IEC 61000-6-2/4

Battery Standards

IEC 62133-2, UL 1973 (reference), GB/T 36276

EMC Compliance

Transport Compliance

UN38.3 Test Summary, IMDG Code, IATA DGR

Maintenance & Service

Recommended Inspection	Visual check quarterly; Full diagnostic annually
Cell Balancing	Automatic during charge; Manual trigger via BMS
Firmware Updates	Remote via WiFi or local via RS485/CAN
Expected Service Life	≥10 years (with proper thermal management)
End-of-Life Handling	Recycle per local regulations; BMS provides SOH report

Disclaimer: Specifications subject to change without notice. Always refer to the latest official documentation before system design or installation. Operating outside specified parameters may void warranty and compromise safety.